

## XP-002207800

AN - 1999-629846 [54]

AP - JP19980117927 19980327

CPY - ARAK

DC - A13 A14 A82 F09 G02

FS - CPI

IC - D21H17/34 ; D21H17/37

MC - A04-C04 A04-D04A1 A10-B03 A12-B01E A12-B01G A12-B03 F05-A06B G02-A02C  
G02-A02D4 G02-A05C

PA - (ARAK ) ARAKAWA CHEM IND LTD

PN - JP11279983 A 19991012 DW199954 D21H17/34 006pp

PR - JP19980117927 19980327

XA - C1999-184179

XIC - D21H-017/34 ; D21H-017/37

AB - JP11279983 A copolymer (A) contains the following as its constituent monomers: (a) a styrene-based cpd.; (b) dialkyl aminoalkyl (meth)acrylamide with  $\text{CH}_2=\text{C}(\text{R}_1)\text{CONANR}_2\text{R}_2$  ( $\text{R}_1 = \text{H}$  or methyl;  $\text{R}_2 =$  methyl or ethyl; and  $\text{A} = 2\text{-}6\text{C}$  alkylene). The amino gp. derived from the dialkyl aminoalkyl (meth)acrylamide is formed into conversion into a quat. cpd. to form a cationic copolymeric cpd. (B). A water-based medium contains the cationic polymeric cpd. (B) as an emulsion dispersant. A polymeric hydrophobic monomer is obtd. by emulsion polymerization in the water-based medium.

- USE - The surface sizing agent is used in paper making and finds its applications various base paper, including alkaline paper, acidic paper, partic. the alkaline paper.

- ADVANTAGE - The surface sizing agent has a superior sizing effect and good dispersibility relative to water, and less bubbling.

- (Dwg.0/0)

IW - SURFACE SIZE AGENT PAPER COMPRISE STYRENE AMINOALKYL METHO ACRYLAMIDE COPOLYMER

IKW - SURFACE SIZE AGENT PAPER COMPRISE STYRENE AMINOALKYL METHO ACRYLAMIDE COPOLYMER

NC - 001

OPD - 1998-03-27

ORD - 1999-10-12

PAW - (ARAK ) ARAKAWA CHEM IND LTD

TI - Surface sizing agent for paper making - comprising styrene-dialkyl aminoalkyl (meth)acrylamide copolymer

A01 - [001] 018 ; H0022 H0011 ; G0102-R G0022 D01 D12 D10 D18 D51 D53 ; G0453-R G0260 G0022 D01 D12 D10 D26 D51 D53 F70 F93 D11 D58 D86 D87 D88 D89 D90 D91 D92 D93 F08 F07 ; L9999 L2528 L2506 ; L9999 L2551 L2506 ; S9999 S1025 S1014 ; M9999 M2700 ; P1741 ; P0088

- [002] 018 ; H0022 H0011 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53 D58 D76 D88 ; G0453-R G0260 G0022 D01 D12 D10 D26 D51 D53 F70 F93 D11 D58 D86 D87 D88 D89 D90 D91 D92 D93 F08 F07 ; L9999 L2528 L2506 ; L9999 L2551 L2506 ; S9999 S1025 S1014 ; M9999 M2700 ; P1741 ; P0088

- [003] 018 ; ND01 ; ND04 ; Q9999 Q7216 Q7114 ; K9563 K9483 ; K9892 ; K9643 K9621 ; B9999 B3430 B3372

- [004] 018 ; A999 A635 A624 A566